

WHAT IS CLAIMED IS:

1. An apparatus, comprising:
a chamber having an inner space; and
an air conditioner for controlling an air
5 supplied or to be supplied into the inner space of
said chamber, said air conditioner including (i) a
refrigerator using a refrigerant, (ii) a first heat
exchanger for exchanging a heat between the
refrigerant and a coolant, and (iii) a second heat
10 exchanger for exchanging a heat between an air
supplied or to be supplied into said chamber and the
coolant;
wherein the refrigerant is circulated between
said refrigerator and said first heat exchanger, and
15 wherein said coolant is circulated between said first
and second heat exchangers.

2. An apparatus according to Claim 1, wherein
said air conditioner further includes an air blower.

20 3. An apparatus according to Claim 1, wherein
said air conditioner further includes a heater.

Sub 23 4. An apparatus according to Claim 1, wherein
25 said first heat exchanger comprises an evaporator.

5. An apparatus according to Claim 1, wherein

said refrigerator comprises a compressor and a condenser.

6. An apparatus according to Claim 1, further comprising a reservoir and a pump provided between said first and second heat exchangers.

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Pg 7
7. An apparatus according to Claim 1, wherein at least a portion of said air conditioner is disposed in juxtaposition of said chamber.

8. An apparatus according to Claim 7, wherein said second heat exchanger is disposed adjacent said chamber, and wherein said refrigerator and said first heat exchanger are disposed separately from said chamber.

9. An apparatus according to Claim 1, wherein the coolant contains one of a water, an anti-freeze, and a fluoride inert liquid.

10. An apparatus according to Claim 1, further comprising a semiconductor manufacturing equipment.

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Pg 8
11. An apparatus according to Claim 1, further comprising one of an inspection equipment and a measuring equipment, disposed inside said chamber.

12. A device manufacturing method, comprising the steps of:

5 providing a chamber for accommodating therein a manufacturing equipment;

executing an air-conditioning process to an inside of the chamber; and

10 executing a device manufacturing process by use of the manufacturing equipment disposed in the chamber;

wherein said air-conditioning process includes (i) providing a refrigerator to be used with a refrigerant, (ii) circulating the refrigerant between the refrigerator and a first heat exchanger, 15 (iii) circulating a coolant between the first heat exchanger and a second heat exchanger, (iv) exchanging a heat between the refrigerant and the coolant, at the first heat exchanger, and (v) exchanging a heat between an air supplied or to be supplied into the 20 chamber and the coolant, at the second heat exchanger.

13. A method according to Claim 12, wherein the air conditioning process further includes heating the air supplied into the chamber.

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14. A method according to Claim 12, wherein at least a portion of an air conditioning system for

executing the air-conditioning process is disposed in juxtaposition of the chamber.

15. A method according to Claim 14, wherein the
5 first heat exchanger is disposed adjacent to the chamber, and wherein the refrigerator and the second heat exchanger are disposed separately from the chamber.

10 16. A method according to Claim 12, wherein the coolant contains one of a water, an anti-freeze, and a fluoride inert liquid.

15 17. A method according to Claim 12, wherein the manufacturing equipment comprises a semiconductor manufacturing equipment.

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